

***CURRICULUM VITAE***

***Of***

# Professor Dr. A.H.M. KHURSHID ALAM

**MAILING ADDRESS:** Professor

 Department of Pharmacy, University of Rajshahi

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## EDUCATIONAL QUALIFICATIONS

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| **Visiting Research Scientist, 2018-2019** | Completed follow up research as Visiting Research Scientist from December, 15, 2019 to March 13, 2019 under the funding of the JASSO (Japan Association of Student Service Organization) at JAIST (Japan Advanced Institute of Science and Technology), Japan. |
| Project Title | Prevention of Cancer by Natural Antioxidants |
| Supervisor | Toshifumi Tsukahara, PhD, Dean and Professor, Division of Transdisciplinary Science, JAIST, Japan. E-mail: tukahara@jaist.ac.jp |
| Medium of Instruction | English |
| **Postdoctoral Research, 2014-2016** | Completed postdoctoral research from April, 2014 to April 2016 as an Asian Young Scientist under the funding of the Tokyo Biochemical Research Foundation (TBRF) at Kyoto University, Japan. |
| Project Title | Genetic Analysis of Cell Competition that Governs Epithelial Tumor Suppression |
| Supervisor | Tatsushi Igaki, Professor, Graduate School of Biostudies, Kyoto University, Japan. E-mail: igaki@lif.kyoto-u.ac.jp |
| Medium of Instruction | English |
| **Ph.D., 2006-2010** | Completed Doctor of Philosophy (PhD) degree from JAIST, Japan. |
| Thesis Title | Changes of Alternative Splicing by Retinoic Acid Treatment and Cell Aggregation in Early Stage of Neural Differentiation of P19 Cells. |
| Thesis Supervisor | Toshifumi Tsukahara, PhD, Dean and Professor, Division of Transdisciplinary Science, JAIST, Japan. E-mail: tukahara@jaist.ac.jp |
| Medium of Instruction | English |
| **M. Pharm. 1997** | Completed one year M. Pharm. course from the Department of Pharmacy, Faculty of Science, University of Rajshahi, Rajshahi, Bangladesh in 1997. Obtained 1st class with 68% marks. |
| Thesis Title | Antishigella Activity of *Hemigraphis hirta* T. Anders and *Achyranthes ferruginea* Roxb. |
| Thesis Supervisor | Dr. Md. Golam Sadik, Professor, Department of Pharmacy, University of Rajshahi, Rajshahi-6205, Bangladesh. E-mail: gsadik2@yahoo.com |
| Medium of Instruction | English |

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| **B. Pharm. 1996** | Completed three years B. Pharm (Hons.) course from the Department of Pharmacy, Faculty of Science, University of Rajshahi, Rajshahi-6205, Bangladesh in 1996. Obtained 1st class with 61% marks. |
| Medium of Instruction | English |
| **H.S.C. 1992** | Passed two years Higher Secondary Certificate (H.S.C.) examination from Bagher Para Degree College, Jessore, Bangladesh in 1992. Obtained 1st division with 68.3% marks. |
| Medium of Instruction | **Bangla** |
| **S.S.C. 1990** | Passed ten years Secondary School Certificate (S.S.C.) examination from Bagher Para Pilot High School, Jessore, Bangladesh in 1990. Obtained 1st division with 68.5% marks. |
| Medium of Instruction | **Bangla** |

## PRESENT STATUS

## Professor, Department of Pharmacy, University of Rajshahi, Rajshahi-6205, Bangladesh.

Academic Collaboration Advisor, Japan Advanced Institute of Science and Technology (JAIST), Japan.

Student Advisor, Rajshahi University Pharmacy Association (RUPA), Department of Pharmacy, Rajshahi University, Rajshahi-6205, Bangladesh.

**JOB EXPERIENCE AND SUBJECT TAUGHT**

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| From April, 2022 to March 31, 2024 | As Academic Collaboration Advisor, JAIST, Japan. Subject Taught: Cancer Biology |
| From April, 2020 to March 31, 2022 | As Academic Collaboration Advisor, JAIST, Japan. Subject Taught: Cancer Biology |
| From April, 2018 to March 31, 2020 | As Academic Collaboration Advisor, JAIST, Japan. Subject Taught: Cancer Biology |
| From December 15, 2018 to March 13, 2019 | As visiting Research Scientist at JAIST, Japan. Subject Taught: Cancer Biology |
| From September 15, 2015 to till date | As Professor, Department of Pharmacy, University of Rajshahi, Bangladesh. Subject Taught: Physiology, Pharmacology, Biopharmaceutics |
| From April 17, 2014 to April 16, 2016 | As a postdoctoral researcher in Kyoto University, Japan.Subject Taught: Drosophila fly Genetics |
| From December 9, 2010 to September 14, 2015 | As Associate Professor, Department of Pharmacy, University of Rajshahi, Bangladesh. Subject Taught: Physiology, Pharmacology, Biopharmaceutics |
| From October, 2006 to June 2010 | As PhD student at Japan Advanced Institute of Science and Technology (JAIST), JapanSubject Taught: Molecular Biology |
| From November 05, 2005 to December 8, 2010 | As Assistant Professor, Department of Pharmacy, University of Rajshahi, Bangladesh. Subject Taught: Physiology, Pharmacology, Biopharmaceutics |
| From November 05, 2002 to November 04, 2005 | As Lecturer, Department of Pharmacy, University of Rajshahi, Bangladesh.Subject Taught: Physiology, Pharmacology, Biopharmaceutics |
| From February 28, 2001 to November 03, 2002 | As Product Executive in Nipa Pharmaceutical Ltd., Bangladesh.  |
| From June 20, 1999 to February 25, 2001 | As Executive in EDRUK Pharmaceuticals Ltd., Bangladesh. |

## RESEARCH EXPERIENCE

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| **(i)** Supervised Master of Pharmacy (M. Pharm.) and Doctor of Philosophy (PhD) level students who are engaged in research for the development of drugs having antioxidant properties from medicinal plants to be used in the treatment of wide variety of diseases such as cancer, diabetes, cardiovascular disease, Alzheimer’s disease etc caused by oxidative stress. Supervised 12 and 10 master level students as main and co-supervisor, respectively. Currently, I am supervising 2 M. Pharm. students as a main supervisor and two PhD students as a co-supervisor. At present, I am trying to identify dietary foods (vegetables, fruits, and spices) having anticancer activity would be considered for prevention of cancers.**(ii)** Three months research experience as Visiting Research Scientist in cancer cell biology.In this study, two compounds (characterized as 7-0-methylmearnsitrin and roseoside A with the collaboration of Dr. Kyoko Nakagawa-Goto, Associate Professor, School of Pharmacy, Kanazawa University, Japan) and 120 extracts obtained from plants and dietary foods (vegetables, fruits and spices), respectively were considered and their cytotoxicity as well as apoptotic activities were examined in different cancer cell lines (HeLa, HEK-293, H3122 and H2228).**(iii)** 2 years postdoctoral research experience in *Drosophila* fly genetics. In brief, in *Drosophila* imaginal epithelia, clones of cells mutant for evolutionarily conserved tumor suppressors such as *scribble* or *discs large* lose their polarity and are eliminated from the tissue by cell competition. Intriguingly, clones of cells mutant for the gene *lethal giant larvae (lgl)*, which is another component of the Scrible polarity complex, are not eliminated by cell competition but instead eliminate surrounding wild-type tissue by super-competition. Using this system, I performed a genetic screen in *Drosophila* eyes using a series of chromosomal deficiencies to identify genes required for super-competition triggered by *lgl clones*. Among the deficiencies screened, I identified some noble genes that, when mutated, strongly blocked super-competition by *lgl* clones; *lgl* mutant cells do not dominate but are eliminated from the tissue. Furthermore, I identified noble gene mutations that significantly enhanced the super-competition of *lgl* clones. The mechanisms underlying this phenomenon and the relationship among these genes regulating super-competition is trying to dissect. **(iv)** Completed 3 years 9 months research work on Molecular Biology in RNA processing (specially regulation mechanism of alternative splicing), entitle “Changes of Alternative Splicing by Retinoic Acid Treatment and Cell Aggregation in Early Stage of Neural Differentiation of P19 Cells” and submitted a dissertation in partial fulfillment of the requirements for the degree of Doctor of Philosophy (PhD) to the Department of Chemical Division, School of Material Science, JAIST, Japan.**(v)** Completed two years research work on Phytochemistry entitle “Antishigella Activity of *Hemigraphis hirta* T. Anders and *Achyranthes ferruginea* Roxb.” and submitted a dissertation in partial fulfillment of the requirements for the degree of M. Pharm to the Department of Pharmacy, University of Rajshahi, Bangladesh.  |

**ACHIEVEMENT OF RESEARCH FUNDING**

1. **Funding agency:** Dean, Faculty of Science, University of Rajshahi, Bangladesh

Name of investigators: **Dr. AHM Khurshid Alam**（Chief investigator）and Dr. Adeeba Anjum (Co-PI)

Project Title: Inhibitory effect of methanol extract of Aerva sanguinolienta (Linn) Blume on HeLa and EAC cells and comparative antioxidant potentials of its different organic fractions.

Year of funding: 2023-2024 (Awarded), Amount:5000 (Apo.) in US dollar

1. **Funding agency:** Ministry of Education. Bangladesh

Name of investigators: Dr. Golam Sadik (PI) and **Dr. AHM Khurshid Alam (Co-PI)**

Project Title: Bioassay guided identification of noble anticancer agent(s) from the aerial parts of Pyrrosia lanceolata (Polypodiaceae) in EAC cells.

Year of funding: 2022-2024 (Awarded), Amount:18000 (Apo.) in US dollar

1. **Funding agency:** Dean, Faculty of Science, University of Rajshahi, Bangladesh

Name of investigators: **Dr. AHM Khurshid Alam**（Chief investigator）

Project Title: Bioassay guided identification of noble anticancer agent(s) from the aerial parts of *Pyrrosia lanceolata* (Polypodiaceae) in EAC cells.

Year of funding: 2021-2022 (Awarded), Amount:2500 (Apo.) in US dollar

1. **Funding agency:** Dean, Faculty of Science, University of Rajshahi, Bangladesh

Name of investigators: Md. Uzzal Haque (Chief investigator**)** and **Dr. AHM Khurshid Alam**（Co- investigator）

Project Title: Evaluation of antioxidant and anticancer activities with biomolecules of Bangladeshi medicinal plants

Year of funding: 2020-2021 (Awarded), Amount: 5000 (Apo.) in US dollar

1. **Funding agency:** Dean, Faculty of Science, University of Rajshahi, Bangladesh

Name of investigators:　 **Dr. AHM Khurshid Alam** (Chief investigator**)**

Project Title: Chemical and biological investigation of *Achyranthes ferruginea*: A study to identify novel drugs for the prevention and treatment of cancer.

Year of funding: 2018-2019 (Awarded), Amount: 2500 (Apo.) in US dollar

1. **Funding agency:** Dean, Faculty of Science, University of Rajshahi, Bangladesh

Name of investigators:　**Dr. AHM Khurshid Alam**（Chief investigator）and Dr. Mamunur Rashid (Second chief investigator).

Project Title: Anticancer mechanism of antioxidant-enriched leavesof *Tabebuia pallida* in EAC cells

Year of funding: 2017-2018 (Awarded), Amount: 2500 (Apo.) in US dollar

1. **Funding Agency:** Bangladesh Medical Research Council

Name of investigators:　Dr. Abu Reza（Chief investigator）and **Dr. AHM Khurshid Alam** (Second chief investigator).

Project Title: Effect of ethephon (an artificial fruit ripening chemical) on the embryonic development of fish.

Year of funding: 2013-2014 (Awarded), Amount: 2500 in US dollar

1. **Funding agency:** Dean, Faculty of Science, University of Rajshahi, Bangladesh

Name of investigators:　**Dr. AHM Khurshid Alam**（Chief investigator）and Laizuman Nahar (Second chief investigator).

Project Title: Evaluation of anti-oxidative potential and anticancer properties of bioactive principles from medicinal plants against EAC- induced tumor in mice

Year of funding: 2012-2013 (Awarded), Amount: 1150 in US dollar

1. **Funding agency:** Dean, Faculty of Science, University of Rajshahi, Bangladesh

Name of investigators: Professor Dr. Mamunur Rashid (Main investigator) and **Dr. AHM Khurshid Alam**（Second chief investigator）

Project Title: Effect of *Acacia nilotica* leaves extract on adrenaline-induced hyperlipidimia and cardiac remodeling in rats

Year of funding: 2009-2010 (Awarded), Amount: 1300 in US dollar

1. **Funding agency:** Cooperative independent research promotion, Dean, School of Material Science, JAIST, Japan

Name of investigators:  **AHM Khurshid Alam**（Chief investigator）and Nor Hakimah Ab Hakim and Hikaru Takayoshi (Research student).

Project Title: Alternative splicing of 4 selected genes during early stage of RA-induced differentiation of P19 cells.

Year of funding: 2008 (Awarded), Amount: 14,000 in US dollar

1. **Funding agency:** Cooperative independent research promotion, Dean, School of Material Science, JAIST, Japan.

Name of investigators: **AHM Khurshid Alam**（Chief investigator）and Nor Hakima Ab Hakim and Yoshiharu Sekiyama (Research student).

Project Title: Regulation of non- muscle and smooth muscle specific alternative splicing of *Actn1*.

Year of funding: 2007 (Awarded), Amount: 12,000 in US dollar.

**PROFESSIONAL QUALIFICATION**

Grade “A” Pharmacist with the Registration No. “A”-1917 awarded by Pharmacy Council of Bangladesh on 29/01/2001.

### TRAINING/WORKSHOP

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| * Two weeks in-plant training in “Square Pharmaceutical Limited” a leading chemical and pharmaceutical industry in Bangladesh.
* Three days’ workshop on Community Pharmacy and Health Care System held in Dhaka, Bangladesh, organized by WHO.
* One day workshop on role of Institutional Quality Assurance Cell (IQAC) on the development of higher education held in Rajshahi University, Bangladesh, organized by IQAC
* Two days’ workshop on National Policy to improve the primary, secondary and higher education in Bangladesh, organized by Bangladesh Academy of Science (BAS).
* One day discussion with Curriculum Design and Review (CDR) committee held in Rajshahi University, Bangladesh, organized by IQAC.
* One day training workshop on CDR held in Rajshahi University, Bangladesh, organized by IQAC.
* One day workshop on Effective Teaching-Learning and Assessment held in Rajshahi University, Bangladesh, organized by IQAC.
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**SCHOLARSHIPS/AWARDS**

* Dean’s Award-2024 for publishing the highest number of quartile articles (Q1-Q4) in the years of 2021-2023.
* Dean’s Article Award-2024 for publishing an article in Q1 journal in the year 2023.
* JASSO follow up research fellowship as Visiting Research Scientist (for 3 months)
* University Grant Commission (UGC) Gold Medal Award-2016 for best paper in 2016
* Tokyo Biochemical Research Foundation (TBRF) Fellowship, 2014 for Postdoctoral Research (2 years)
* Japanese Government Scholarship, Monbukagakusho, 2006 for PhD study (For 3 years)
* Habibur Rahman Gold Medal Award, University of Rajshahi, 1997 on the basis of the result of B. Pharm. Examination
* Rajshahi University Scholarship, University of Rajshahi, 1996 on the basis of the result of B. Pharm. examination (For 1 year)
* Bangladesh Government Scholarship, Jessore Education Board, 1992, on the basis of the result of H.S.C. examination (For 3 years)
* Bangladesh Government Scholarship, Jessore Education Board, 1990, on the basis of the result of S.S.C. examination (For 2 years)
* Junior Government Scholarship (Talent pool), Khulna Junior Education Board, 1988 (For 2 years)

### MEMBERSHIP OF PROFESSIONAL BODIES

* Registered Pharmacist of Pharmacy Council of Bangladesh (BPC)
* Active member, Pharmacy Graduates Association (PGA)
* Active member, Bangladesh Pharmaceutical Society (BPS)
* Active member, Rajshahi University Teachers Association (RUTA)
* Active member, Rajshahi University Pharmacy Association (RUPA)
* Active member, Bangladesh Bioinformatics and Computational Biology Association (BBCBA)
* Active member, Curriculum Design and Review (CDR) committee of Pharmacy Department, Rajshahi University, Bangladesh
* Active member, PSAQ committee of Pharmacy Department, Rajshahi University, Bangladesh

**COMMUNITY CONTRIBUTION**

* Student Advisor (2024-2025), an organization that are accountable for cocurricular activities of students for Pharmacy Department, University of Rajshahi, Bangladesh.
* Press and Publication Secretary of Bioinformatics Research Group of Rajshahi University (BioRGRU), an organization for arranging local and international conference, seminar, workshop and symposium.
* Active member of Sajon, a blood donating organization for ill and poor people
* Treasure of RUPA (2003-2005 and 2011-2012), an organization that are accountable for cultural activities of students and teachers for Pharmacy Department, University of Rajshahi, Bangladesh.
* General Secretary and Joint Secretary of RUPA (1995-1997), an organization that are accountable for social gathering, study tour management, excursion arrangement, national and international day celebration.
* House Tutor of Mather Box Hall, Rajshahi University (2004-2006), a position of a residential student hall to manage their residence, and to organize other co-curriculum activities like cultural activities, sports, debating, and so on.
* Convener to arrange a local conference at Pharmacy Department in Rajshahi University, Bangladesh.

**PROFESSIONAL ACTIVITIES**

**1. Contribution as Reviewer**

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| **Name of the Journals** | **Number of Review Articles** |
| BMC Complementary and Alternative Medicine | 110 |
| Clinical Phytoscience | 65 |
| Journal of Pharmacy and Pharmacology | 13 |
| Asian Pacific Journal of Tropical Medicine | 07 |
| PLOS ONE | 20 |
| Journal of Bioscience | 10 |
| Phytotherapy Research | 05 |
| Pharmaceutical Biology | 02 |
| Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy | 04 |
| Saudi Journal of Biological Sciences | 06 |
| Journal of Pharmaceutical and Biomedical Analysis | 04 |
| Journal of Neurology and Neuromedicine | 03 |
| Experimental Biology | 03 |
| Biomedicine and Pharmacotherapy | 10 |
| Frontiers in Pharmacology/Oncology | 21 |
| Bangladesh Pharmaceutical Journal | 05 |
| Dhaka University Journal of pharmaceutical Sciences | 03 |
| Heliyon | 10 |
| Others | 40 |

**2. Editor**

Frontiers in Pharmacology and Frontiers in Oncology Journal from April 2020.

Academic editor in PLOSE ONE from April 2021.

Editorial Board member in Healthmed Journal of Pharmaceutical Sciences from November, 2024

**3. Invited Speakers**

* **AHM Khurshid Alam, Lecter on** “Ramadan Fasting: A Natural Detox for A Healthier Life**”** organized by Rajshahi University Science Club, March, 2025**.**
* **AHM Khurshid Alam,** Lecture on “Prevention of Cancer with Dietary Foods”, 1st International Conference on Public Health (ICPH), 2023, Department of Statistics, University of Rajshahi, Bangladesh, August, 2023.
* **AHM Khurshid Alam,** Lecture on “Guaianolide sesquiterpene lactone (Guai-1(10),5,7(11),8-tetradien-12,8-olide) suppresses the proliferation of cancer cells by inducing apoptosis”, International Conference, Department of Pharmacy, State University, Bangladesh, May, 2023.
* **AHM Khurshid Alam,** Lecture on “Anti-ROS Polyphenol-rich Leea aequata L. Leaves Potentiate Apoptosis-inducing Anti-proliferation on Cancer Cells”, International Conference, Department of Pharmacy, University of Dhaka, Bangladesh, February, 2023.
* **AHM Khurshid Alam,** Lecture on the selection of solvents for extraction as a process of identification of the compounds from the natural sources such as plants, microorganism, algae etc, Department of Genetics, University of Rajshahi, Bangladesh, 25th November, 2021.
* **AHM Khurshid Alam**. Lecture on Cell Competition: A New Approach for Cancer Study, Conference Room (337), Department of Statistics, Rajshahi University, Bangladesh, 17-19 Dec., 2017.
* **AHM Khurshid Alam.** Lecture onGenetic Analysis of Cell Competition that Governs Epithelial Tumor Suppression**,** International Symposium, Japan Advanced Institute of Science and Technology (JAIST), Japan, March 18, 2016.
* **AHM Khurshid Alam.** Lecture onRetinoic Acid Treatment and Cell Aggregation Independently Regulate Alternative Splicing in P19 Cells During Neural Differentiation**,** Conference Room (337), Department of Statistics, Rajshahi University, Bangladesh, 10 March, 2013.

**4. Research Collaboration**

1. Dr. Toshifumi Tsukahara, Professor and Vice-President, Japan Advanced Institute of Science and Technology (JAIST), Japan.

2. Dr. Kyoko Nakagawa-Goto, Associate Professor, School of Pharmacy, Kanazawa University, Japan

3. Dr. Glenda C Gobe, Associate Professor, Centre for Kidney Disease Research, School of Medicine, University of Queensland, Queensland, Australia.

4. Dr. Raffaele Capasso, Professor, Department of Agricultural Sciences, University of Naples Federico II, 80055 Portici, Italy.

5. Dr. Duygu Ağagündüz, Associate Professor, Department of Nutrition and Dietetics, Gazi University, Emek, Ankara 06490, Turkey; duyguturkozu@gazi.edu.tr

6. Dr. Abu Reza, Professor, Department of Genetics, University of Rajshahi, Bangladesh

7. BCSIR, Dhaka and Rajshahi, Bangladesh

8. Dr. Sayed Rassel Kabir, Professor, Department of Biochemistry and Molecular Biology, University of Rajshahi, Bangladesh.

9. ASM Ali Reza, Assistant Professor, Department of Pharmacy, International Islamic University, Chittagong, Bangladesh.

10. Dr. Mohsin Kazi, Professor, College of Pharmacy, King Saud University, P.O. Box 2457; Riyadh 11451, Saudi Arabia.

**RESEARCH SUPERVISING**

Both M. Pharm, and PhD research. I have already supervised 12 M. Pharm. students as a main supervisor and 1 PhD student as a co-supervisor. Currently, I am supervising 2 M. Pharm. students and 1 PhD student as a main supervisor and 2 PhD students as a co-supervisor.

**LIST OF PUBLICATIONS** (For more details please visit: https://scholar.google.com/citations?user=7kMzTTIAAAAJ&hl=en)

**2025**

1. Hossain F, Zamaly S, Ashraful ABM, Rahman AA, Sadik MG, **Alam AHMK**. Exploring the therapeutic potential of Leea rubra (Vitaceae): Antioxidant efficacy, brine shrimp lethality, and in vivo anticancer activity against EAC cells in Swiss albino mice. ***Journal of Biologically Active Products from Bature* (Accepted).**
2. Khanam K, **Alam AHMK**, Kamal AHMM, Jahan MS, Islam MA, Rahman MAA, Rashid M. Antidiabetic, antidyslipidemic, hepatoprotective effects and histopathological analysis of aqueous extract of *Tamarindus indica* (Fabaceae) on streptozotocin-induced diabetic rats. ***Journal of Complementary and Alternative Medical Research***, 4(26), 10-20, 2025.

**2024**

1. Haque MU, **Alam AHMK**, Shovon MTI, Sujon KM, Maruf MMH, Kabir SR, Hoque KMF, Reza MB. Unveiling the apoptotic potential of antioxidant-rich Bangladeshi medicinal plant extractives and computational modeling to identify antitumor compounds. ***Heliyon***, 10 (20): e38885, 2024.
2. Reza ASMA, Raihan R, Azam S, Shahanewz M, Nasrin MS, Siddique MAB, Uddin MN, Dey AK, Sadik MG, **Alam AHMK**. Experimental and pharmacoinformatic approaches unveil the neuropharmacological and analgesic potential of chloroform fraction of Roktoshirinchi (Achyranthes ferruginea Roxb.). ***Journal of Ethnopharmacology,***324 (4)**,** 117779, 2024.
3. Uddin, A., Reza, A. S. M. A., Anjum, A., Rahman, M. A. A., Yesmin, S., Nasrin, M. S., Khatun, L., Mostofa, M. G., Sadik, M. G., and **Alam, AHMK**. In vitro Cytotoxic and Anti-ROS Potentials of the Aerial Part of Pyrrosia lanceolata on A549 Cells and Cell Free Condition. ***Bangladesh Pharmaceutical Journal***, 27(2), 137–148, 2024.
4. Khanam K, **Alam AHMK**, Sharmin F, Hossain I, Jahan S, Rahman AA and Rashid M. Oral glucose tolerance, hepatoprotective and nephroprotective effect of combination therapy of linagliptin and emblica officinalis and its ameliorating effect on streptozotocin induced diabetic rats. ***International Journal of Pharmaceutical Sciences and Research***, 15 (6), 1703-1710, 2024.
5. Ali MR, Reza ASMA, Haque MA, Islam MJ, Hossain MR, Mollah MI, Islam MB, Sarker J, Rashid M, Sadik MG, Cicia D, Capasso R, Kazi M, **Alam AHMK**. Exploring the therapeutic potential of edible vegetables, fruits, and spices against cancer in various cell lines. ***Journal of Cancer,*** 15(3):577-589, 2024.
6. Mostofa MG, Reza ASMA, Khan Z, Munira MS, Khatoon MM, Kabir SR, Sadik MG, Ağagündüz D, Capasso R, Kazi M, **Alam AHMK**. Apoptosis-inducing anti-proliferative and quantitative phytochemical profiling with in silico study of antioxidant-rich Leea aequata L. leaves. ***Heliyon***, 10: e23400

**2023**

1. Ferdous R, Islam MB, Al-Amin MY, Dey AK, Mondal MOL, Islam MN, **Alam AHMK**, Rahman AA, Sadik MG. Anticholinesterase and antioxidant activity of *Drynaria quercifolia* and its ameliorative effect in scopolamine-induced memory impairment in mice. ***Journal of Ethnopharmacology,*** 117095, 2023.
2. **Alam AHMK**, Miura Y, Rahman MAA, Sadik MG, Rashid M, Tsukahara T. Screening of aptamers that bind to the multivalent aminoglycoside amikacin. ***Bangladesh Pharmaceutical Journal***, 26(2), 134-145, 2023.
3. Ali MO, Khatune NA, **Alam AHMK**, Rahman MAAA. In vitro antibacterial and cytotoxic activities of various fractions of *Lippia alba* (Mill.). ***Bangladesh Pharmaceutical Journal***, 26(2), 150-156, 2023.
4. Khan MAR, Islam MA, Biswas K, Al-Amin MY, Ahammed MS, Manik MIN, Islam KM, Kader MA, **Alam AHMK**, Zaman S, Sadik MG. Compounds from the petroleum ether extract of *Wedelia chinensis* with cytotoxic, anticholinesterase, antioxidant, and antimicrobial activities. ***Molecules***, 28(2), 793, 2023.
5. Ahammed MS, Kader MA, Islam KMM, Lopa SS, **Alam AHMK**, Sadik G. Anti-inflammatory activity of the phenolic compounds from *Vanda roxburghii* R. Br. ***Bangladesh Pharmaceutical Journal***, 26(1): 1-6, 2023.
6. Ali MO, Khatune NA, Parvin MS, **Alam AHMK**, Rahman MAR. In vitro antioxidant and free radical scavenging activity of *Lippia alba* (Verbenaceae). ***Bangladesh Pharmaceutical Journal***, 26(1): 7-14, 2023.
7. Khadiza K, Sultana R, Kamal AHMM, Jahan MS, Rahman MAA, **Alam AHMK**, Rashid M. Linagliptin in combination with *Emblica officinalis* Gaertn improves glycemic control through alleviating dyslipidemia and oxidative stress on streptozotocin induced diabetic rats. ***Journal of Pharmaceutical Research International*,** 35 (12). 37-46, 2023**.**

**2022**

1. Al-Amin MY, Lahiry A, Ferdous R, Hasan MK, Kader MA, **Alam AHMK**, Saud MJA, Sadik MG. *Stephania japonica* ameliorates scopolamine-induced memory impairment in mice through inhibition of acetylcholinesterase and oxidative stress. ***Advances in Pharmacological and Pharmaceutical Sciences*,** 1-17, 2022.
2. Khan MA, Kassianos AJ, Hoy WE, **Alam AHMK**, Healy HG, Gobbi GC. Promoting plant-based therapies for chronic kidney disease. ***Journal of Evidence-Based Integrative Medicine***, 27, 1-16, 2022.
3. Uddin ABMN, Hossain F, Reza ASMA, Nasrin MS, **Alam AHMK.** Traditional uses, pharmacological activities and phytochemical constituents of the genus Syzygium: A review. ***Food Science & Nutrition*,** 1-31, 2022.
4. Foyzun T, Mahmud AA, Ahammed MS, Manik MIN, Hasan MK, Islam KMM, Lopa SS, Al-Amin MY, Biswas B, Afrin MR, **Alam AHMK**, Sadik MG. Polyphenolics with strong antioxidant activity from *Acacia nilotica* ameliorate some biochemical signs of arsenic-induced neurotoxicity and oxidative stress in Mice. ***Molecules***, 27, 1037, 2022.
5. Akter MJ, Khatun R, Khatune NA, **Alam AHMK**, Rahman NA. In vitro antioxidant and free radical scavenging activity of the bark of *Dillenia indica* L. ***Bangladesh Pharmaceutical Journal*** 25(1): 38-43, 2022.

**2021**

1. Reza ASMA, Sikdar N, Nasrin MS, Rahman MA, Tareq AM, **Alam AHMK**, Sharmin S, Sayeed MA. Knowledge, attitude, perception of biological science and healthcare professional students to complementary and alternative medicine health believe and practice in Southeastern region of Bangladesh: A comparative study. ***Bangladesh Pharmaceutical Journal,*** 24(2), 159-167, 2021.
2. Islam MA, Zaman S, Biswas K, Al-Amin MY, Hasan MK, **Alam AHMK**, Tanaka T, Sadik MG. Evaluation of cholinesterase inhibitory and antioxidant activity of *Wedelia chinensis* and isolation of apigenin as an active compound. ***BMC Complementary Medicine and Therapies***, 21(1), 1-12, 2021.
3. Rahman MM, Reza ASMA, Khan MA, Sujon KM, Sharmin S, Rashid M, Sadik MG, Reza MA, Tsukahara T, Capasso R, Mosaddik A, Gobe GC, **Alam AHMK.** Unfolding the Apoptotic Mechanism of Antioxidant Enriched-Leaves of Tabebuia pallida (Lindl.) Miers in EAC Cells and Mouse Model. ***Journal of Ethnopharmacology****,* 278(5), 114297, 2021.
4. Reza ASMA, Haque MA, Sarker J, Nasrin MS, Rahman MM, Tareq AM, Khan Z, Rashid M, Sadik MG, Tsukahara T, **Alam AHMK.** Antipriliferative and antioxidant potentials of bioactive edible vegetable fractionof *Achyranthes ferruginea* Roxb. in cancer cell line. ***Food Science and Nutrition***, 1-29, 2021.
5. Ahammed MS, Afrin R, Uddin N, Al-amin MY, Hasan K, Haque U, Islam MKM, **Alam AHMK,** Tanaka T, Sadik MG. Acetylcholinesterase inhibitory and antioxidant activity of the compounds isolated from *vanda roxburghi*. ***Advances in Pharmacological and Pharmaceutical Sciences,*** 1-9, 2021.
6. Islam SS, Karim MR, Asaduzzaman AKM, **Alam AHMK,** Mahmud ZH, Kabir SR. Trichosanthes dioica seed lectin inhibits Ehrlich ascites carcinoma cells growth in vivo in mice by inducing G0/G1 cell cycle arrest. ***Journal of Food Biochemistry***, 45(5), e13714, 2021.
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